



MediaDrive, MediaDock Shuttle™ Packs, and MEDIArray™ Fibre Channel Drive Striping Tables

Media Composer® Release 8.1.x for the Macintosh® Operating System

Avid Xpress® Release 3.1.x for the Macintosh Operating System

Symphony™ Release 1.x and Release 2.x for the Windows NT® Operating System

Media Composer Release 8.x and Release 9.x for the Windows NT Operating System

Film Composer® Release 9.x for the Windows NT Operating System

Avid Xpress Release 2.x and Release 3.x for the Windows NT Operating System

Important Information

Avid recommends that you read all the information in this document thoroughly before installing any software.

These drive striping tables are for specific Avid releases prior to September 2000. The supported Avid® releases for the Macintosh® systems and Windows NT® systems are identified in each section. As new MediaDrive enclosures, MediaDock Shuttle™ packs, and MEDIArray™ Fibre Channel drives are qualified, this document will be updated.

Avid supports several families of MediaDrive enclosures, MediaDock Shuttle packs, and MEDIArray Fibre Channel drives. [Table 1](#) lists the families, their specifications, and their available storage capacities.

For additional information on a specific MediaDrive or a specific MediaDock Shuttle pack, see the setup and user's guide that shipped with the MediaDrive or the MediaDock™ chassis.



The family name of your drive can be found on the front of the MediaDrive or the MediaDock Shuttle pack.

Table 1 MediaDrive, MediaDock Shuttle, and MEDIArray Drive Information

Family Name	Type	RPM	Drive Type	Available Storage Capacities
iS	Fast, wide	7200	Fixed MediaDrive and MediaDock Shuttle	9 GB, 23 GB
iS Pro	Fast, wide	7200	Fixed MediaDrive and MediaDock Shuttle	9 GB, 18 GB
iS Plus	Fast, wide	10,000	MediaDock Shuttle	9 GB, 18 GB
iS 160/SE	Fast, wide	10,000	MediaDock Shuttle	36 GB
rS Plus	Fast, wide	10,000	Fixed MediaDrive	9 GB, 18 GB
iS Plus LVD	LVD	10,000	MediaDock Shuttle	9 GB, 18 GB
iS LVD	LVD	10,000	MediaDock Shuttle	18 GB, 36 GB
iS 160/LVD	160/LVD	10,000	MediaDock Shuttle	18 GB, 36 GB, 73 GB
iS 160/LVD	160/LVD	7200	MediaDock Shuttle	180 GB
iS 160/LVD Gen 5	160/LVD	10,000	MediaDock Shuttle	36 GB, 73 GB
iS 320/LVD Gen 6	320/LVD	10,000	MediaDock Shuttle	36 GB, 73 GB, 146 GB
rS LVD	LVD	10,000	Fixed MediaDrive	9 GB, 18 GB, 36 GB
rS 160/LVD	160/LVD	10,000	Fixed MediaDrive	18 GB, 36 GB, 73 GB
rS 160/LVD	160/LVD	7200	Fixed MediaDrive	180 GB

Table 1 MediaDrive, MediaDock Shuttle, and MEDIAArray Drive Information (Continued)

Family Name	Type	RPM	Drive Type	Available Storage Capacities
rS 160/LVD Gen 5	160/LVD	10,000	Fixed MediaDrive	36 GB, 73 GB
rS 320/LVD Gen 6	320/LVD	10,000	Fixed MediaDrive	36 GB, 73 GB, 146 GB
MediaShare™ F/C Drive	Fibre Channel	7200	Fibre Channel Pack	9 GB
MEDIAArray Drive	Fibre Channel	10,000	Fibre Channel Pack	18 GB
MEDIAArray Drive	Fibre Channel	7200	Fibre Channel Pack	50 GB
MEDIAArray XL Drive	Fibre Channel	10,000	Fibre Channel Pack	18 GB, 73 GB
MEDIAArray XLV Drive Gen 5	Fibre Channel	10,000	Fibre Channel Pack	73 GB

Macintosh Drive Striping Tables

Table 2 through Table 7 list drive striping information pertaining to the Macintosh platform releases of:

- Media Composer® Release 8.1.x
- Avid Xpress® Release 3.1.x

The information is based on support for:

- One stream of uncompressed (1:1) video when using the blue and white G3 and G4 Macintosh systems
- Two streams of uncompressed (1:1) video when using the G4 AGP or newer Macintosh system only
- Eight channels of audio at 48 kHz with real-time, downstream key (DSK) titles and graphics



The iS drive family is supported only on Media Composer Release 8.0 and earlier, and Avid Xpress Release 3.0 and earlier for Macintosh systems. This restriction does not apply to the iS Pro, iS Plus, iS Plus LVD, iS LVD, iS 160/LVD, and iS 320/LVD drive families.



The Macintosh drive striping tables are a guide for productions with typical edit densities. For projects involving high cut densities (extensive cuts at fewer than 10-frame edits), Avid recommends increasing to the next striping increment.

Table 2 Macintosh Drive Striping — Single-Drive Unstriped

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	
iS	RT ^a	RT	1 stream	RT	RT	1 stream	NS ^b	NS
iS Pro	RT	RT	RT	RT	RT	1 stream	NS	NS
iS Plus	RT	RT	RT	RT	RT	RT	1 stream	NS
iS 160/SE	RT	RT	RT	RT	RT	RT	1 stream	NS
rS Plus	RT	RT	RT	RT	RT	RT	1 stream	NS
iS Plus LVD	RT	RT	RT	RT	RT	RT	1 stream	NS
iS LVD	RT	RT	RT	RT	RT	RT	1 stream	NS
iS 160/LVD Gen 5	RT	RT	RT	RT	RT	RT	RT	NS
iS 320/LVD Gen 6	RT	RT	RT	RT	RT	RT	RT	NS
rS LVD	RT	RT	RT	RT	RT	RT	1 stream	NS
rS 160/LVD Gen 5	RT	RT	RT	RT	RT	RT	RT	NS
rS 320/LVD Gen 6	RT	RT	RT	RT	RT	RT	RT	NS

a. RT — Real time; 2 streams supported.

b. NS — Not supported.

The information in [Table 3](#) requires striping across two SCSI channels for fast, wide MediaDrive enclosures and MediaDock Shuttle packs, or one SCSI channel for LVD MediaDrive enclosures or LVD MediaDock Shuttle packs.

Table 3 Macintosh Drive Striping — 2-Way Striped Drives

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1 ^a
iS	RT ^b	RT	1 stream	RT	RT	RT	1 stream	NS ^c
iS Pro	RT	RT	RT	RT	RT	RT	1 stream	NS
iS Plus	RT	RT	RT	RT	RT	RT	RT	NS
iS 160/SE	RT	RT	RT	RT	RT	RT	RT	NS
rS Plus	RT	RT	RT	RT	RT	RT	RT	NS
iS Plus LVD	RT	RT	RT	RT	RT	RT	RT	NS
iS LVD	RT	RT	RT	RT	RT	RT	RT	1 stream
iS 160/LVD	RT	RT	RT	RT	RT	RT	RT	1 stream
iS 160/LVD 180 GB and Gen 5	RT	RT	RT	RT	RT	RT	RT	RT
iS 320/LVD Gen 6	RT	RT	RT	RT	RT	RT	RT	RT
rS LVD	RT	RT	RT	RT	RT	RT	RT	1 stream
rS 160/LVD	RT	RT	RT	RT	RT	RT	RT	1 stream

**Table 3 Macintosh Drive Striping — 2-Way Striped
Drives (Continued)**

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1^a
rS 160/LVD 180 GB and Gen 5	RT	RT	RT	RT	RT	RT	RT	RT
rS 320/LVD Gen 6	RT	RT	RT	RT	RT	RT	RT	RT

- a. Single-stream 1:1 is supported only on the blue and white G3 and the G4 Macintosh systems.
- b. RT — Real time; 2 streams supported.
- c. NS — Not supported.

The information in [Table 4](#) requires striping across two SCSI channels for fast, wide MediaDrive enclosures and MediaDock Shuttle packs, or one SCSI channel for LVD MediaDrive enclosures or LVD MediaDock Shuttle packs.

Table 4 Macintosh Drive Striping — 4-Way Striped Drives

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1
iS	RT ^a	RT	RT	RT	RT	RT	RT	NS ^b
iS Pro	RT	RT	RT	RT	RT	RT	RT	NS
iS Plus	RT	RT	RT	RT	RT	RT	RT	1 stream
iS 160/SE	RT	RT	RT	RT	RT	RT	RT	1 stream
rS Plus	RT	RT	RT	RT	RT	RT	RT	1 stream
iS Plus LVD	RT	RT	RT	RT	RT	RT	RT	1 stream ^c
iS LVD	RT	RT	RT	RT	RT	RT	RT	RT ^d
iS 160/LVD	RT	RT	RT	RT	RT	RT	RT	RT ^e
iS 160/LVD 180 GB and Gen 5 ^f	RT	RT	RT	RT	RT	RT	RT	RT
iS 320/LVD Gen 6 ^f	RT	RT	RT	RT	RT	RT	RT	RT
rS LVD	RT	RT	RT	RT	RT	RT	RT	RT ^d
rS 160/LVD	RT	RT	RT	RT	RT	RT	RT	RT ^e

Table 4 Macintosh Drive Striping — 4-Way Striped Drives (Continued)

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1
rS 160/LVD 180 GB and Gen 5 ^f	RT	RT	RT	RT	RT	RT	RT	RT
rS 320/LVD Gen 6 ^f	RT	RT	RT	RT	RT	RT	RT	RT

- a. RT — Real time; 2 streams supported.
- b. NS — Not supported.
- c. Four-way striping is supported for 1:1 resolution using iS Plus LVD (MediaDock Shuttle). Avid recommends switching to 8-way striping for projects that use extensive cuts of fewer than 10-frame edits.
- d. Uncompressed — 2 streams of 1:1 resolution are supported only when you are using a G4 platform and you 4-way stripe across two SCSI channels. For projects involving high cut densities (extensive cuts at fewer than 10-frame edits), you must render before you play back — switching to 8-way striping will not help.
- e. Requires a UL2D SCSI controller with firmware Version 1.6 or later. Does not require two SCSI channels. Uncompressed — 2 streams of 1:1 resolution are supported only when you are using a G4 platform.
- f. This drive performs equally well in a 2-way stripe. Avid recommends using a 2-way stripe when possible.

The information in [Table 5](#) requires one SCSI channel.

Table 5 Macintosh Drive Striping — 8-Way Striped Drives

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1 ^a
iS Plus LVD	RT ^b	RT	RT	RT	RT	RT	RT	RT

a. Real-time 1:1 is only supported on the blue and white G3 and the G4 Macintosh systems.

b. RT — Real time; 2 streams supported.

The information in [Table 6](#) requires 4-way or 6-way striping for 10,000 rpm MEDIArray XL and MEDIArray XLV drives.

Table 6 Macintosh Fibre Channel Drive Striping — 4-Way or 6-Way Striped Drives

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1
MEDIArray XL or MEDIArray XLV Drives (all)	RT ^a	RT	RT	RT	RT	RT	RT	1 stream only

a. RT — Real time; 2 streams supported.

The information in [Table 7](#) requires 10-way striping for MediaShare Fibre Channel drives, 7200-rpm MEDIArray drives, and 10,000-rpm MEDIArray, MEDIArray XL, or MEDIArray XLV drives. The 50-GB MEDIArray drive is not supported on Macintosh systems.

**Table 7 Macintosh Fibre Channel Drive Striping —
10-Way Striped Drives**

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1
MediaShare F/C, MEDIArray, MEDIArray XL, or MEDIArray XLV Drives (all)	RT ^a	RT	RT	RT	RT	RT	RT	1 stream

a. RT — Real time; 2 streams supported.

Windows NT Drive Striping Tables

[Table 8](#) through [Table 12](#) list striping information pertaining to the Windows NT platform releases of:

- Symphony™ Release 1.x and Release 2.x
- Media Composer Release 8.x and Release 9.x
- Film Composer® Release 9.x
- Avid Xpress Release 2.x and Release 3.x

The information is based on support for:

- Two streams of uncompressed video (Avid Xpress supports only one stream of uncompressed video)
- Eight channels of audio at 48 kHz with real-time DSK titles and graphics



The Windows NT drive striping tables are a guide for productions with typical edit densities. For projects involving high cut densities (extensive cuts at fewer than 10-frame edits), Avid recommends increasing to the next striping increment.

Consider the following support issues:

- The iS MediaDrive and iS MediaDock Shuttle families are not supported on Windows systems. This restriction does not apply to the iS Pro, iS Plus, iS 160/SE, iS Plus LVD, iS LVD, iS 160/LVD, and iS 320/LVD drive families.
- The SCSI LVD controller board, MediaDrive rS LVD enclosures, and LVD MediaDock Shuttle packs are supported on Windows NT systems with Symphony Release 2.x, Media Composer Release 9.x, Film Composer Release 9.x, and Avid Xpress Release 3.x or later.
- Avid recommends that users of Symphony Releases 1.0 and 1.1, Media Composer Release 8.0, and Avid Xpress Releases 2.0 and 2.1 upgrade to Symphony Release 1.1.1, Media Composer Release 8.0.1, and Avid Xpress Release 2.1.1. These upgrades provide greater support for MediaDrive enclosures and MediaDock Shuttle packs.

Table 8 Windows NT Drive Striping — Single Drive Unstriped

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1
iS	NS ^a	NS	NS	NS	NS	NS	NS	NS
iS Pro	RT ^b	RT	RT	RT	RT	1 stream	NS	NS
iS Plus	RT	RT	RT	RT	RT	RT	1 stream	NS
iS 160/SE	RT	RT	RT	RT	RT	RT	1 stream	NS
rS Plus	RT	RT	RT	RT	RT	RT	1 stream	NS
iS Plus LVD ^c	RT	RT	RT	RT	RT	RT	1 stream	NS
iS LVD ^c	RT	RT	RT	RT	RT	RT	1 stream	NS
iS 160/LVD Gen 5 ^d	RT	RT	RT	RT	RT	RT	RT	NS
iS 320/LVD Gen 6 ^d	RT	RT	RT	RT	RT	RT	RT	NS
rS LVD ^c	RT	RT	RT	RT	RT	RT	1 stream	NS
rS 160/LVD Gen 5 ^d	RT	RT	RT	RT	RT	RT	RT	NS
rS 320/LVD Gen 6 ^d	RT	RT	RT	RT	RT	RT	RT	NS

a. NS — Not supported.

b. RT — Real time; 2 streams supported.

c. The SCSI LVD controller board is not supported on Symphony Release 1.x, Media Composer Release 8.x, and Avid Xpress Release 2.x. These systems are qualified to use single-ended SCSI MediaDrive enclosures or MediaDock Shuttle packs with the Adaptec™ 3940 SCSI accelerator board. The LVD MediaDrive enclosures or MediaDock Shuttle packs function in fast, wide mode on these systems; therefore, use the iS Plus or rS Plus family striping entries for the correct striping capabilities.

d. Requires an ATTO™ UL3D SCSI controller board.

The information in [Table 9](#) requires striping across two SCSI channels for fast, wide MediaDrive enclosures and MediaDock Shuttle packs, or one SCSI channel for LVD MediaDrive enclosures or LVD MediaDock Shuttle packs.

Table 9 Windows NT Drive Striping — 2-Way Striped Drives

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1
iS	NS ^a	NS	NS	NS	NS	NS	NS	NS
iS Pro	RT ^b	RT	RT	RT	RT	RT ^c or 1 stream ^d	1 stream	NS
iS Plus	RT	RT	RT	RT	RT	RT	RT	NS
iS 160/SE	RT	RT	RT	RT	RT	RT	RT	NS
rS Plus	RT	RT	RT	RT	RT	RT	RT	NS
iS Plus LVD ^e	RT	RT	RT	RT	RT	RT	RT	NS
iS LVD ^e	RT	RT	RT	RT	RT	RT	RT	1 stream
iS 160/LVD ^e	RT	RT	RT	RT	RT	RT	RT	RT ^{c, f}
iS 160/LVD 180 GB and Gen 5 ^g	RT	RT	RT	RT	RT	RT	RT	RT
iS 320/LVD Gen 6 ^g	RT	RT	RT	RT	RT	RT	RT	RT
rS LVD ^e	RT	RT	RT	RT	RT	RT	RT	1 stream
rS 160/LVD ^e	RT	RT	RT	RT	RT	RT	RT	RT ^{c, f}

**Table 9 Windows NT Drive Striping — 2-Way Striped
Drives (Continued)**

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1
rS 160/LVD 180 GB and Gen 5 ^g	RT	RT	RT	RT	RT	RT	RT	RT
rS 320/LVD Gen 6 ^g	RT	RT	RT	RT	RT	RT	RT	RT

- a. NS — Not supported.
- b. RT — Real time; 2 streams supported.
- c. Use two SCSI channels.
- d. Use one SCSI channel.
- e. The SCSI LVD controller board is not supported on Symphony Release 1.x, Media Composer Release 8.x, and Avid Xpress Release 2.x. These systems are qualified to use single-ended SCSI MediaDrive enclosures or MediaDock Shuttle packs with the Adaptec 3940 SCSI accelerator board. The LVD MediaDrive enclosures or MediaDock Shuttle packs function in fast, wide mode on these systems; therefore, use the iS Plus or rS Plus family striping entries for the correct striping capabilities.
- f. Single SCSI channel provides RT with up to 6 audio channels (maximum).
- g. Requires an ATTO UL3D SCSI controller board.

The information in [Table 10](#) uses two SCSI channels for fast, wide MediaDrives or one SCSI channel for LVD MediaDrive enclosures.

Table 10 Windows NT Drive Striping — 4-Way Striped Drives

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1
iS	NS ^a	NS	NS	NS	NS	NS	NS	NS
iS Pro	RT ^b	RT	RT	RT	RT	RT	RT	NS
iS Plus	RT	RT	RT	RT	RT	RT	RT	1 stream ^c
iS 160/SE	RT	RT	RT	RT	RT	RT	RT	1 stream
rS Plus	RT	RT	RT	RT	RT	RT	RT	1 stream ^c
iS Plus LVD ^d	RT	RT	RT	RT	RT	RT	RT	1 stream
iS LVD ^d	RT	RT	RT	RT	RT	RT	RT	RT
iS 160/LVD ^d	RT	RT	RT	RT	RT	RT	RT	RT
iS 160/LVD 180 GB and Gen 5 ^{e, f}	RT	RT	RT	RT	RT	RT	RT	RT
iS 320/LVD Gen 6 ^{e, f}	RT	RT	RT	RT	RT	RT	RT	RT
rS LVD ^d	RT	RT	RT	RT	RT	RT	RT	RT

**Table 10 Windows NT Drive Striping — 4-Way Striped
Drives (Continued)**

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1
rS 160/LVD ^d	RT	RT	RT	RT	RT	RT	RT	RT
rS 160/LVD 180 GB and Gen 5 ^{e, f}	RT	RT	RT	RT	RT	RT	RT	RT
rS 320/LVD Gen 6 ^{e, f}	RT	RT	RT	RT	RT	RT	RT	RT

a. NS — Not supported.

b. RT — Real time; 2 streams supported.

c. Use two SCSI channels.

d. The SCSI LVD controller board is not supported on Symphony Release 1.x, Media Composer Release 8.x, and Avid Xpress Release 2.x. These systems are qualified to use single-ended SCSI MediaDrive enclosures or MediaDock Shuttle packs with the Adaptec 3940 SCSI accelerator board. The MediaDrive rS LVD enclosures or MediaDock Shuttle packs function in fast, wide mode on these systems; therefore, use the iS Plus or rS Plus family striping entries for the correct striping capabilities.

e. This drive performs equally well in a 2-way stripe. Avid recommends using a 2-way stripe when possible.

f. Requires an ATTO UL3D SCSI controller board.

The information in [Table 11](#) requires striping across one SCSI channel.

Table 11 Windows NT Drive Striping — 8-Way Striped Drives

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1
iS Plus LVD ^a	RT ^b	RT	RT	RT	RT	RT	RT	RT

- a. The SCSI LVD controller board is not supported on Symphony Release 1.x, Media Composer Release 8.x, and Avid Xpress Release 2.x. These systems use single-ended SCSI MediaDrive enclosures or MediaDock Shuttle packs with the Adaptec 3940 SCSI accelerator board. An 8-way stripe of the iS Plus LVD family on the Adaptec 3940 SCSI accelerator board is not supported.
- b. RT — Real time; 2 streams supported.

The information in [Table 12](#) requires MediaShare Fibre Channel and MEDIAArray Fibre Channel drives to be striped for video and separate SCSI (fast, wide or LVD) MediaDrives for audio.

Use 10-way striping for MediaShare Fibre Channel drives and 50-GB, 7200-rpm MEDIAArray drives; use 4-way, 6-way, or 10-way striping for 10,000-rpm MEDIAArray, MEDIAArray XL, and MEDIAArray XLV drives.

Table 12 Windows NT Fibre Channel Drive Striping — 4-Way, 6-Way, or 10-Way Striped Drives

Drive Family	Single-Field Resolution NTSC/PAL			Two-Field Resolution NTSC/PAL				Uncompressed Two-Field Resolution NTSC/PAL
	15:1s	4:1s	2:1s	20:1	10:1	3:1	2:1	1:1
MediaShare F/C, MEDIAArray, MEDIAArray XL, or MEDIAArray XLV Drives (all)	RT ^a	RT	RT	RT	RT	RT	RT	RT

a. RT — Real time; 2 streams supported.

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